UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Yellowstone National Park, Wyoming 83020

REPLY REFER TO:

A2823

August 11, 1964

Summary of July 1964 Monthly Narrative Report

		Page
WEATHER	Clear skies; summer temperatures; little precipitation; cool nights. Maximum 96°; minimum 28°.	1
TRAVEL	672,437 visitors; increase 5.9 percent. Highest single-day figure of 28,134 visitors, new seven-day record of 166,162 visitors established.	1
INSPECTIONS	Mr. Frank Childs, Special Assistant (Safety) to Regional Director, Midwest Region.	2
	Elbert W. Smith, Concessions Management, Midwest Region.	2
VISITORS	Mrs. Richard Rodriquez and three daughters, the only living descendants of Major General Washburn.	
FOREIGN VISITORS	Professor W. S. Lacey, Department of Botany, University College of North Wales, United Kingdom, July 2-4.	2
	Dr. Moeljadi Banoewidjojo, Indonesia, who is working in U.S. on Agricultural Department Grant arrived July 6.	2
	Mr. Maxmi Bickram Rana, Conservator of Forests for the Government of Nepal in Kathmandu, July 15-17.	2
	Mahmood Bahmanyar and son, Reza, July 20 and 21	3
	A group of five young student leaders from French West Indies accompanied by Mr. and Mrs. Lawrence McKay, July 25-27.	3

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FOREIGN VISITORS (Cont.)	Senor Guillermo Villegas Fabrega, Assistant Director of Agriculture in the Ministry of Agriculture and Commerce, Republic of Panama, July 27 and 28.	3
	National Park Board of Japan, arrived July 31	3
	Japanese Barley Survey Mission, July 31 and August 1.	3
	Mr. and Mrs. Armand Denis and cameramen, British Broadcasting Company, arrived July 25.	3
	African Students Samson Malinga Ipoot and Meteur Daniel Sindiyo of Uganda and Kenya arrived July 19 for a two-week training period.	3
SPECIAL ACTIVITIES	Millionth Visitor for 1964, Mrs. Duane McKinney and son, Nick, of Wilton, Connecticut, entered South Entrance, July 27.	4
	Use of paving machine for laying blacktop initiated this season.	4
	Superintendent and Staff met with Dr. Joseph Pechanec, Director, Inter-mountain Forest and Range Experiment Station, Ogden, Utah and Dr. Harper and Mr. King of the U.S. Forest Service, Washington, D.C. to discuss exchanges in research.	4
	July 20. Superintendent McLaughlin, Chief Ranger Howe, Biologist Howe and officials of U.S. Fish and Wildlife had a meeting on financing fisheries research at Lake. The Forestry Committee of the Great Plains Agriculture Council met with Park officials to discuss campground development in National Parks and to tour Park campgrounds.	4

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SPECIAL ACTIVITIES (Cont.)	Regional Biologist Walter H. Kittams discussed methods of payment of various resource study programs existing in the Park.	4
	Dr. Fred Clover, Colorado State University Wildlife Research Unit was in the Park July 23 and 24 to discuss black bear research program.	4
	Wilson H. George, Concessions Management, WASO, attended concessioner meeting July 16 and discussed concession matters with Park personnel.	4
	Superintendent's staff meetings July 2, 16 and 30.	4
ADMINISTRATION PERSONNEL		
Transfers:	Richard L. Holder, Supervisory Park Ranger, GS-9, to WASO.	5
	James L. Monheiser, Clerk, GS-5, to Management Assistant, GS-7, Rocky Mountain.	5
	Anita L. Jones, Clerk-Stenographer, GS-3, to Rocky Mountain National Park, GS-4.	5
	James R. Repburn, Auto Machanic, To Grand Teton.	5
In:	Judith L. Wolfe from Bureau of Reclamation, Billings.	5
	Miss Ludema Tannehill, Denver Region, U.S. Civil Service Commission, reviewed operation of the Yellowstone National Park Board of Examiners on July 24.	5
	105 Seasonal Rangers on duty as of July 10.	5
Births:	Daughter to Management Assistant and Mrs. James W. Godbolt, July 12.	5
	Son to Mr. and Mrs. Philip J. Hatch, July 26.	5

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DEATHS	D. A. Morton, father of Mrs. Mary Shearer, July 13 in Portland, Oregon.	5
	Robert W. Stirling, visitor, July 12 at Old Faithful Inn.	5
	Richard Filteau, visitor, July 22 at Fishing Bridge Campground.	5
SUICIDE	Glen C. Reaser, NPS, July 17 in Fishing Bridge Campground.	6
MARRIAGE	James Patterson and Carol Miller, July 4	6
MISCELLANEOUS	Coffee's: James and Donna Monheiser, July 1	6
	Anita L. Jones, July 23	6
	James R. Hepburn, July 24	6
	Donald Armstrong, Explorer Scout and Lane Anderson, Scout, to Scout Jamboree at Valley Forge, July 11 through 28.	6
INTERPRETIVE USE	Programmed services for public participation continued through month.	6
	Average of 1,800 persons attending each of 226 Old Faithful Cone Talks.	6
INTERPRETIVE PLANNING	Robert Spring, wilderness photographer arrived July 15. Ass't Chief Naturalist accompanied him on several backcountry trips.	6
HISTORY	Park Historian accompanied Dr. Richard Bartlett to historic sites on July 8 and 21.	6
YLMA	Initial printing of 25,000 copies Fountain Paint Pot booklet exhausted at end of July.	7
RESEARCH AND OBSERVATION	STEAMBOAT GEYSER broke two new records during month.	7
	OLD FAITHFUL average interval 67.3 minutes.	7
	GRAND GEYSER average interval 14 hours.	7
	BEEHIVE recorded 10 eruptions.	7
	CASTLE 49 eruptions, average interval of 9 hrs.	7
	RIVERSIDE 52 eruptions, average interval of 6 hours and 16 minutes.	7

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RESEARCH AND OBSERVATION (Cont.)	GREAT FOUNTAIN 39 eruptions, average interval of seven hours, 32 minutes.	7
	GROTTO GEYSER, 21 eruptions, average interval about six hours.	7
	Average interval of PLUME about 26 minutes.	7
	OBLONG GEYSER had nine eruptions average about seven hours.	7
	BABY SPRING at Mammoth ceased to flow June 26 and resumed flow July 14.	8
	SPRUCE TREE SPRING became very active again in early July.	8
EXHIBITS AND EQUIPMENT	Self-guiding FOUNTAIN PAINT POT TRAIL has proven extremely popular.	8
	Old Faithful Geyser prediction panel useful in answering visitors' most frequent questions.	8
	Overlook constructed at LOWER GEYSER BASIN.	8
	Board walks moved away from FOUNTAIN GEYSER.	8
	New STEAMBOAT exhibit panel placed at Norris Museum.	8
SANITATION	Sanitarian Willett performed 26 food establishment inspections and five public shower inspections. Investigation of two suspected food poisoning outbreak reports and one diarrhea outbreak in Yellowstone Park Company employees at Mammoth.	8
HEALTH	Park Sanitarian collected 78 water samples for analysis.	8
	Sanitarian sampled air twice during month in cooperation with National Air Sampling Network.	8
	O. D. Moore, Public Health Service, Denver, made inspections in Park accompanied by Sanitarian.	8

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LAW ENFORCEMENT	Total of 184 law enforcement incidents during month. 28 cases of larcency under $50, and 31 cases over $50 reported on Monthly Uniform Crime Report.	8
RANGER ACTIVITIES	Ranger Patrol cars used as ambulances to Lake Hospital ten times.	9
	Ranger personnel assisted in locating 36 lost persons.	9
	Ranger at West Entrance assisted with injured of an airplane crash on July 12.	9
	Horse patrols conducted again in campgrounds.	9
PROTECTION	Burrough cash register system in complete operation by July 13.	9
CONCESSIONERS	Hamilton Stores, Inc. presented new policy for use of script.	9
	Dr. H. W. Fromm joined Park Clinic and Yellowstone Park Medical Staff.	9
COMPLAINTS	Complaints against Park concessioners less numerous this season and are mostly on untidy housekeeping.	9
ROADS & TRAILS	Trail crews began construction of trails in Grant Village area.	9
	Trails in Park except some short sections in South District have been cleared and are open to fire travel.	10
CAMPGROUNDS	Facilities for Canyon Campground extension completed except comfort stations now under construction.	10
	New addition of Indian Creek Campground now complete and in use.	10

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[illegible]	Trial of 100 low-performance laboratory service models. 75 cases of [illegible] error, 20 [illegible] and 20 [illegible] to [illegible] [illegible] report.	[illegible]
[illegible]	Danger signal were sent to [illegible] [illegible] hospital [illegible].	[illegible]
	Danger personnel [illegible] [illegible] 30 [illegible] [illegible].	[illegible]
	Danger at [illegible] [illegible] with [illegible] of [illegible] [illegible] on July 31.	[illegible]
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	Dr. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].	[illegible]
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FOREST FIRE PROTECTION	All fire lookouts manned. Helicopter arrived July 2 for season. Forest fire detection plane arrived at West Yellowstone July 20.	10
	Three Class A fires occurred during the month: Fern Lake, Tower Fall Dump, and Old Tower Road.	10
GEOLOGICAL SURVEY	Rangers cooperated with the U.S. Geological Survey by making weekly readings of gauges registering depth and flow of Madison and Lamar rivers.	10
SOIL AND MOISTURE	Rangers read soil moisture gage on Gallatin and reported to Soil Conservation Service.	10
HUNTING	Montana Fish and Game Department District Supervisor called meeting July 18 relative to moose hunting regulations in Cooke City area. Last year's regulations will be continued.	10
WILDLIFE		
Bear:	Statistics and Incidents listed.	10 & 11
Bison:	Word received that Yellowstone bison herd will be managed on basis of Leopold Report.	11
Lynx:	Lynx observed on July 17 about 1½ miles west of Turbid Lake.	11
Mountain Lion:	2 mountain lions observed by visitors, July 11 in Hayden Valley; July 28 west of Madison Jct.	11
Otter:	Five otter seen at West Thumb on July 22. Large otter observed in Gooseneck Lake.	11
Porcupine:	Porcupine seen at North Entrance July 19, 2 killed by cars on Madison-West road during month.	11
Snakes:	Several bull snakes illegally killed by visitors on Mammoth Terraces during early July.	12
Trumpeter Swan:	A pair of swan nested and hatched 4 cygnets on swamp south of Bunsen Peak.	12
PUBLIC AFFAIRS		
Publicity	Yellowstone Weekly News issued each Thursday.	12

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	Four press releases issued: construction of concessioner sales building at Bridge Bay, new residences at Mammoth, millionth visitor, and new travel records.	12
RELIGIOUS & CHAPEL USE	Services for all faiths conducted during month, throughout Park.	12
	Wedding in Chapel on July 4.	12
PUBLIC RELATIONS	The Montana Association for the Blind, 45 persons accompanied on a tour of the Park by Naturalist Meagher.	12
CONTRACTS	Listed	12 & 13
BIG HOLE BATTLEFIELD	Travel heavy all month. New record of 1,240 visitors established on July 19 when Governor Tim Babcock dedicated state highway 43. Total of 6,743 visitors for July.	13
	Complaints received verbally about Battlefield's small parking area.	13
	Master Plan is progressing. Chapters One and Two have been drafted and Chapter Three is being written.	13
DESIGN AND CONSTRUCTION	Listed.	14, 15, & 16

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Yellowstone National Park, Wyoming 83020

PLY REFER TO:

A2823

August 11, 1964

Memorandum

To: Director

From: Superintendent, Yellowstone

Subject: Monthly Narrative Report for July 1964

General

Weather Conditions. July was a beautiful month with clear skies and summer temperatures and very little precipitation. Nights were cool. Ideal for visitor travel.

Maximum temperature for the Park was 96 degrees at North Entrance on July 20, 22 and 26. Minimum temperature for the Park was recorded on July 25 at West Yellowstone and Tower Falls, 28 degrees. Temperatures recorded around the Park were as follows:

	Maximum		Minimum	
North Entrance	96	July 20, 22 & 26	44	July 14
Mammoth	89	" 11, 27	36	" 25
Tower Falls	93	" 24	28	" 25
Lamar	87	" 22	29	" 25
Northeast Entrance	89	" 8	30	" 6, 25
West Yellowstone	91	" 8, 21 & 22	28	" 25
Old Faithful	86	" 19	33	" 25

Increase or Decrease in Travel. Visitation for July was 672,437, an increase of 37,242 or 5.9 percent over July 1963, exceeding the prior record number of July 1962 by 31,364.

Comparison of previous years:

July	Visitors	Vehicles
1964	672,437	186,788
1963	635,195	176,443
1962	641,073	178,076

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Yellowstone National Park, Wyoming 82190

[illegible] August 11, [illegible]

Memorandum

To: Director

From: Superintendent, Yellowstone

Subject: Monthly Narrative Report for July 1964

General

Weather Conditions. July was a beautiful month with clear skies and summer temperatures and very little precipitation. Weather was cool, ideal for visitor travel.

Maximum temperature for the Park was 90 degrees at North Entrance on July 30, 23 and 24. Minimum temperature for the Park was recorded on July 25 at West Yellowstone and Trans Valle, 23 degrees. Temperatures recorded around the park were as follows:

	Maximum	Minimum
North Entrance	90 July 30, 23 & 24	44 July 14
Mammoth	90 " 11, 12	38 " 23
Trans Valle	83 " 30	27 " 25
Lamar	87 " 21	32 " 23
Northeast Entrance	88 " 8	36 " 30, 31
West Yellowstone	91 " 8, 22 & 23	28 " 25
Old Faithful	86 " 19	37 " 14

Increase or Decrease in Travel. Visitation for July was 417,[illegible] increase of 57,[illegible] or [illegible] percent over July 1963, [illegible] record number of July 1962 by 71,[illegible].

Comparison of previous years:

July	Vehicles	Pedestrian
1964	[illegible]	[illegible]
1963	[illegible]	[illegible]
1962	[illegible]	[illegible]

The highest single-day travel figure was established on July 27 when 28,134 visitors entered the Park. The previous all-time high of 27,957 was established July 4, 1963.

A new seven-day record was established the week of July 19 when 166,162 visitors entered at the five Park gateways, exceeding by almost 10,000 the record first seven days of July 1962.

Inspections. Mr. Frank Childs, Special Assistant (Safety) to Regional Director, Midwest Region, attended safety meetings at Lake, West Thumb, Madison and Mammoth and in company with Safety Committee Chairman Foster made general inspections of Park and concessinner operations. He met with the Superintendent and Associate Superintendent on two occasions.

Elbert W. Smith, Concessions Management, Midwest Region, was in the Park on concession matters, and Samuel A. Hoover, Jr., Engineer from the Washington Office, John Eubank, Midwest Region, and Ralph McFadden, Supervisory Electronics Engineer, WODC, were in the Park on a study of power problems. A meeting was held with Montana Power regarding service at Canyon Village, with members of the Park staff and representatives of the Yellowstone Park Company attending.

Visitors. Mrs. Richard Rodriquez and her three daughters, the only living descendants of Major General Washburn, visited the Park early in July. The family tried to follow in the footsteps of their distinguished forebearer by climbing Mount Washburn, named in honor of the General who was the first to ascend it. Deep snow forced the party back at the 8,700 foot level. The oldest daughter, Melody, is employed by the Yellowstone Park Company.

Foreign Visitors. Professor W. S. Lacey, Department of Botany, University College of North Wales, United Kingdom, visited the Park July 2-4. Special interests were nature trails and the public relations aspects of conservation areas.

Dr. Moeljadi Banoewidjojo, Indonesia, who is working in this country on an Agriculture Department grant, arrived July 6.

Mr. Maxmi Bickram Rana, Conservator of Forests for the Government of Nepal in Kathmandu, visited the Park July 15-17. Purpose of visit was to receive on-the-job information on all phases of Park administration, objectives, history, visitor relations, etc. He attended Utah State University in 1963-64.

The highest single-day travel figure was established on July 17 when 22,134 visitors entered the Park. The previous all-time high of 27,957 was established July 4, 1963.

A new seven-day record was established the week of July 13 when 105,181 visitors entered at the five Park gateways, exceeding by almost 10,000 the record first seven days of July 1963.

Inspections. Mr. Frank Childs, Special Assistant (Safety) to Regional Director, Midwest Region, attended safety meetings at Lake, Wash., Hawk, Hudson and Kenneth and in company with Safety Committee Chairman Waters made general inspections of Park and Concessions operations. He met with the Superintendent and Associate Superintendent on the occasion.

Elmer W. Smith, Conservation Management, Midwest Region, was in the Park on concession matters, and Jewel A. Warren, Jr., Engineer from the Washington Office, John Dobson, Midwest Region, and Earth Safeguard, Supervisory Electronics Engineer, WASC, were in the Park on a study of power problems. A meeting was held with Minnesota Power Engineering Service at Cooper Village, with members of the Park Staff and representatives of the Yellowstone Park Company attending.

Visitors. Mrs. Richard Rodriguez and her three daughters, the only living descendants of Major Chester Washburn, visited the Park early in July. The family tried to follow in the footsteps of their distinguished forebearer by climbing Mount Washburn, named in honor of the General who was the first to ascend it. Many have found the party tiring at 8,700 foot level. The oldest daughter, Shirley, is employed by the Yellowstone Park Company.

Foreign Visitors. Professor W. B. Tracy, Department of Botany, Mercantile College of North Wales, United Kingdom, visited the Park July 7-11. Special interests were before trail-and the public relations aspects of conservation areas.

Dr. Sanjeeb Sarmaratjaya, Indonesia, was in meeting in this country on an Agriculture Department grant, arrived July 8.

Mr. Mohan Bickram Rana, Conservator of Forests for the Government of Nepal in Kathmandu, visited the park July 24-27. Purpose of visit was to receive on-the-job information on all phases of Park administration, objectives, history, visitor relations, etc. He attended their Park University in 1963-64.

Mahmood Bahmanyar and his son, Reza, visited the Park July 20 and 21. Mr. Bahmanyar is head of the Taxation Office of the Government of Iran.

A group of five young student leaders from the French West Indies visited Yellowstone July 25-27 accompanied by Mr. and Mrs. Lawrence McKay of Bozeman, Montana.

Senor Guillermo Villegas Fabrega, Assistant Director of Agriculture in the Ministry of Agriculture and Commerce, Republic of Panama, visited the Park July 27 and 28.

The National Park Board of Japan, comprised of five officials, under the leadership of Mr. Shushiro Hata, Chief of Economic Department, Iwate Perfectural Government, arrived July 31 for five days. The National Parks Association of Japan sent this National Park Study Party to the United States and Canadian Parks to learn as many things as they can about general planning needs, administration, conservation and interpretation.

The Japanese Barley Survey Mission, consisting of 17 Japanese businessmen and accompanied by Mr. Kenneth Storer, a tour escort for the Greyhound Corporation, are traveling across the United States inspecting barley and feed grain producing and processing facilities. This group was in Yellowstone July 31 and August 1.

Mr. and Mrs. Armand Denis, representing the British Broadcasting Company, and cameramen Mr. D. N. Bartlett and Mr. Niels Halbertsma arrived July 25. Mr. Denis is one of the most noted and experienced wildlife photographers in the world, and his group is in the United States for several months to obtain 13 half-hour films about North American National Parks, wildlife, Indian life and conservation programs for the BBC (Natural History Unit). This material will be used in TV shows on BBC-TV this winter. Mr. Denis is also one of the foremost TV producers of Europe, specializing in natural history subjects.

AFRICAN STUDENTS. Samson Malinga Ipoot and Meteur Daniel Sindiyo of Uganda and Kenya, under the auspices of the Agency for International Development arrived July 19 for a two-week training period. They were interested in Park programs, with special reference to wildlife protection and management.

Mohamed Dahmoyer and his son, Hasan, visited the Park July 16 and 17. Mr. Dahmoyer is head of the Tourism Office of the Government of Tiris.

A group of five young student leaders from the Grand-Port Lycee visited Tallowstone July 23-27 accompanied by Mr. Jean Jean, Professor Bishop of Mauritius, Mauritius.

Great Guillaume Villegas Fabregas, Assistant Director of Agriculture in the Ministry of Agriculture and Commerce, Republic of Mexico, visited the Park July 27 and 28.

The National Park Board of Japan, consisting of five officials, under the leadership of Mr. Shoshiro Hara, Chief of Economic Department, Tests Perfectural Government, arrived July 31 for five days. The National Parks Association of Japan used this National Park plus Party to the United States and Canadian parks to learn as many things as they can about general planning needs, administration, conservation and interpretation.

The Japanese Barley Survey Mission, consisting of 11 Japanese Government and accompanied by Mr. Kenneth Hunger, 1 Year Escort for the Department Corporation, are traveling across the United States Inspecting Barley and Land grain production and processing facilities. Their group was in Tallowstone July 31 and August 1.

Mr. and Mrs. Armand Denis, representing the British Broadcasting Company, and Cameraman Mr. G. M. Bartlett and Mr. Alain Bellemaire arrived July 14. Mr. Denis is one of the most noted and experienced wildlife photographers in the world, and his group is in the United States for several months to obtain 13 half-hour film about North American National Parks, Wildlife, Indian life and conservation programs for the BBC (Natural Library Unit). This material will be used in TV shows on BBC-TV Unit Worldwide. Mr. Denis is also one of the Laureate Tv producers of Europe, specialists in natural history subjects.

<u>AGRICULTURE STUDENTS</u>. Samson Mulungu Ipoor and Mohamed Ismail Kiddie, of Uganda and Kenya, under the auspices of the Agency for International Development arrived July 19 for a two-week training period. They were interested in Park program, with special reference to wildlife protection and management.

Special Activities.

MILLIONTH VISITOR. Mrs. Duane McKinney, and her son, Nick, of 60 Nodhill Road, Wilton, Connecticut, entered the Park through the South Entrance, July 27, and was counted as Yellowstone's Millionth Visitor for 1964. Mrs. Harris Bucklin, daughters, Jane and Mary, and son, Howard, shared in the welcome extended by Assistant Superintendent Martinek and Management Assistant Godbolt, and representatives of the Park concessioners. This is the 17th year Yellowstone National Park has honored the season's Millionth Visitor by a special welcome to the Park.

Management Improvement. During the last several years, major problems of traffic congestion have developed by using traditional methods of laying blacktop by road graders on major roads. This season use of a paving machine was initiated which has improved the operation in several respects. The amount of equipment, manpower, and materials required to do the job has been reduced and traffic can move now with a minimum of delay as the machine ties up only one lane of traffic. Costs have been considerably reduced. A special report on this improved technique will be prepared and submitted through channels.

The Superintendent and his staff met with Dr. Joseph Pechanec, Director, Inter-mountain Forest and Range Experiment Station, Ogden, Utah; Dr. Harper and Mr. King of the U. S. Forest Service, Washington, D. C., July 13 to discuss exchange of research information and the possibilities of the Forest Service participating in Park research projects.

On July 20, Superintendent McLaughlin, Chief Ranger Wayne R. Howe and Biologist Robert E. Howe attended a meeting on financing fisheries research at Lake with officials of the U. S. Fish and Wildlife. The Forestry Committee of the Great Plains Agriculture Council met with Associate Superintendent Gastellum, Chief Park Ranger Howe, Management Assistant Godbolt and Park Landscape Architect Clancy to discuss campground development in national parks and to tour some of the Park's campgrounds.

Regional Biologist Walter H. Kittams attended meetings and conferences with Park personnel discussing types of contracts and methods of payment of various resource study programs existing in the Park.

Dr. Fred Glover, Unit, Leader, Colorado State University Wildlife Research Unit, was in the Park July 23 and 24 to discuss the black bear research program.

Mr. Wilson H. George, Concession Management, Washington Office, attended the Yellowstone Park Concessioner meeting on July 16, and discussed concessions matters with Park personnel.

Superintendent's staff meetings were held July 2, 16 and 30.

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Administration

Personnel.

Transfers. Richard H. Holder, Supervisory Park Ranger, GS-9, to Staff Park Ranger, GS-11, Division of Personnel Management and Manpower Development, Branch of Training, Washington, D. C., effective July 3.

James L. Monheiser, Clerk, GS-5, to Management Assistant, GS-7, Rocky Mountain National Park, effective, July 5.

OUT

Miss Anita L. Jones, Clerk-Stenographer (Seasonal) GS-3, to Rocky Mountain National Park, GS-4, effective July 26.

James R. Hepburn, Auto Mechanic (seasonal) to Grand Teton National Park, Auto Mechanic, effective July 26.

IN

Judith L. Wolfe, transferred in to Supply Center from Bureau of Reclamation, Billings, to replace Miss Anita Jones, effective July 19.

Miss Ludema Tannehill, Denver Region, U. S. Civil Service Commission, Board Operations Supervisor, reviewed the operation of the Yellowstone National Park Board of Examiners on July 24.

A full complement of seasonal rangers, numbering 105, was on duty as of July 10.

Births. A daughter, Jennifer, was born July 12 at the Lake Hospital to Management Assistant and Mrs. James W. Godbolt

A son, Clark C. was born July 26 at Lake Hospital, to Mr. and Mrs. Phillip J. Hatch, South Provo, Utah.

Deaths. Mr. D. A. Norton, passed away July 13 at his home in Portland, Oregon. Funeral services were held at the First Presbyterian Church. Mary T. Shearer, Secretary-Stenographer, is daughter of Mr. Norton.

Mr. Robert W. Stirling of Cranston, Rhode Island, age 70, passed away July 12 in Old Faithful Inn from the effects of coronary occlusion. Body removed to Gurnett Funeral Home, Livingston. Burial in Highland Park Cemetery, Johnston, Rhode Island.

Richard Filteau, age 21, Pine Rock Park, Shelton, Connecticut, died July 22 while camping with his parents atFishing Bridge Campground. Richard Filteau was a known epileptic. The body was taken to Livingston, Montana for an autopsy and was interred there.

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Suicide: Glen C. Reaser, age 59, from Southwick, South Dakota, was found dead by an unidentified Park visitor, in a campground comfort station utility storage room in Fishing Bridge Campground, as the result of self-imposed hanging sometime between the hours of 8:00 a.m. and 2:45 p.m., July 17. Mr. Reaser had been employed seasonally for the National Park Service for the past six years. He is survived by a brother, Clarence E. Reaser, of Caputa, South Dakota.

Marriage. Mr. James Albin Patterson of San Mateo, California and Carol Mason Miller were united in marriage in the Yellowstone National Park Chapel, July 4, 1964. Personnel Officer Richard C. Miller and Mrs. Miller are the parents of the bride.

Miscellaneous. A Coffee honoring James and Donna Monheiser was held July 1. Mr. Monheiser accepted a transfer and promotion to Management Assistant at Shadow Mountain National Recreation Area, Rocky Mountain National Park, Colorado.

A Coffee honoring Miss Anita M. Jones was held July 23. Miss Jones departed Yellowstone for Shadow Mountain National Recreation Area as secretary to Mr. Monheiser.

A Coffee honoring James R. Hepburn was held July 24. Mr. Hepburn transferred to Grand Teton National Park as auto mechanic.

Explorer Scout, Donald Armstrong, son of Mr. and Mrs. William Armstrong, and Scout Lane Anderson, 14-year-old son of Bishop and Mrs. William Anderson, Smoot, Wyoming, attended the Scout Jamboree at Valley Forge, July 11 through 28. Mr. Anderson is employed seasonally as Campground Park Ranger (General) at Canyon, and Mr. Armstron is Foreman 11, Maintenance.

Conservation, Interpretation and Use

Interpretive Services. All programmed services for public participation continued in full force throughout the month.

There was an average of more than 1,800 persons attending each of 226 Old Faithful Cone Talks. Interpretive activities during July were marked by large audiences attending.

Interpretive Planning. Mr. Robert Spring of Edmonds, Washington, wilderness photographer, arrived July 15 and is under contract to the National Park Service to furnish photographs for the Grant Village Visitor Center exhibits. Assistant Chief Park Naturalist Bryan Harry accompanied Mr. Spring on several back country trips during the month.

History. The Park Historian accompanied Dr. Richard Bartlett to historic sites in the Lamar Valley and Canyon-Lake area on July 8 and 21.

Deaths: [illegible] C. [illegible], age [illegible], from [illegible], was found dead by an unidentified Park visitor, in a [illegible] utility [illegible] to Fishing Bridge Campground, as the result of self-inflicted [illegible] between the hours of [illegible] a.m. and [illegible] p.m., July [illegible]. Mr. [illegible] had been employed [illegible] the National Park Service for the past six years. He is survived by a brother, [illegible].

Marriages. Mr. [illegible] of the [illegible] and [illegible] were united in marriage in the Yellowstone National Park Chapel, July [illegible], 1961. [illegible] Miller and Mrs. Miller are the parents of the bride.

Miscellaneous. A coffee honoring [illegible] was held July [illegible]. Mr. [illegible] accepted a transfer and promotion to [illegible] at [illegible] National Recreation Area, [illegible] National Park, Colorado.

A coffee honoring [illegible] was held July [illegible]. [illegible] departed Yellowstone for [illegible] National [illegible] to Mr. [illegible].

A coffee honoring [illegible] was held July [illegible]. Mr. [illegible] transferred to Grand Teton National Park as [illegible].

[illegible], son of Mr. and Mrs. [illegible], and [illegible], [illegible]-year-old son of [illegible], [illegible], Wyoming, attended the [illegible] at [illegible], July [illegible] through [illegible]. Mr. [illegible] is employed seasonally as [illegible] Park Ranger [illegible], and Mr. [illegible].

Conservation, Interpretation and Use

Interpretive Services. All programmed services for public participation continued in full force throughout the month.

There was an average of more than [illegible] persons attending each of the [illegible] talks. Interpretive activities [illegible] July [illegible] by large audience attendance.

Interpretive Planning. Mr. [illegible] of [illegible], photographer, arrived July [illegible] and is under contract to the National Park Service to furnish photographs for the [illegible] Visitor Center exhibits. [illegible] Chief Park Naturalist [illegible] accompanied Mr. [illegible] on several [illegible].

History. The Park Historian accompanied Mr. [illegible] in [illegible] sites in the Lower Valley and Canyon-Lake area on July [illegible] and [illegible].

YLMA. The initial printing of 25,000 copies of FOUNTAIN PAINT POT booklet was exhausted at the end of July, and a new printing is expected during the first week of August.

Research and Observation. STEAMBOAT GEYSER. Two more records were broken during the month. The previous record number of eruptions during one month was four in June. July was marked by five eruptions. On July 2, Steamboat erupted after only a 5-day interval, the shortest on record. The previous record was 6 days.

The average interval for OLD FAITHFUL during the month of July was 67.3 minutes. The longest interval was 92 minutes and the shortest was 38 minutes. June average interval was 66.73 minutes. In July 1963 the average was 65.2 minutes.

The average interval for GRAND GEYSER was 16 hours during June 1964, and 14 hours for July. Each year it has been shorter than the preceeing year, as follows:

July 1964 - 14 hours
1963 - 33 hours
1962 - 40 hours
1961 - 131 hours

There were 10 eruptions of BEEHIVE recorded during July, compared to three in June. Undoubtedly, there were a few eruptions at night which were not recorded.

During the month, 49 eruptions of CASTLE were observed, with an average interval of nine hours, a maximum of ten hours and thirty minutes, and a minimum of eight hours and three minutes.

There were 52 eruptions of RIVERSIDE recorded, with an average interval of six hours and sixteen minutes. The maximum was six hours and forty minutes, and the minimum was five hours and fifty minutes.

There were 39 eruptions of GREAT FOUNTAIN recorded, with an average interval of seven hours and thirty-two minutes. The longest interval recorded was eight hours and five minutes, and the shortest, seven hours and ten minutes.

Eruptions recorded for GROTTO GEYSER were twenty-one. The average interval may be about six hours.

The average interval for PLUME appears to be about 26 minutes.

Nine eruptions were recorded for OBLONG GEYSER. Its average may be about seven hours.

[illegible]. The initial printing of [illegible] copies of [illegible] [illegible] [illegible] was exhausted at the end of July, and a new printing is expected during the first week of August.

Research and Observation. [illegible]. The [illegible] [illegible] [illegible] during the month. The previous record of [illegible] [illegible] one month was four in June. July was marked by [illegible] [illegible]. On July 1, [illegible] [illegible] [illegible] only a 1-day interval, the [illegible] on record. The previous record was 6 days.

The average interval for [illegible] during the month of July was [illegible] minutes. The longest interval was [illegible] minutes and the shortest was [illegible] minutes. June average interval was [illegible] minutes. In July [illegible] the average was [illegible] minutes.

The average interval for [illegible] was [illegible] hours during June [illegible], and [illegible] hours for July. Each year is [illegible] [illegible] than the preceding year, as follows:

July [illegible] - [illegible] hours
[illegible] - [illegible] hours
[illegible] - [illegible] hours
[illegible] - [illegible] hours

There were [illegible] eruptions of [illegible] recorded during July, [illegible] [illegible] [illegible] in June. Undoubtedly, there were a few eruptions at night which were not recorded.

During the month, [illegible] eruptions of [illegible] were observed, with an average interval of [illegible] hours, a maximum of [illegible] hours and [illegible] minutes, and a minimum of eight hours and three minutes.

There were [illegible] eruptions of [illegible] recorded, with an average interval of six hours and sixteen minutes. The maximum was [illegible] hours and [illegible] minutes, and the minimum was [illegible] hours and [illegible] minutes.

There were [illegible] eruptions of [illegible] recorded, with an average interval of seven hours and thirty-two minutes. The longest interval recorded was eight hours and [illegible] minutes, and the minimum, [illegible] hours and [illegible] minutes.

Eruptions recorded for [illegible] were [illegible]. The average interval may be about six hours.

The average interval for [illegible] appears to be about [illegible] minutes.

[illegible] were recorded for [illegible]. Its average may be about seven hours.

BABY SPRING at Mammoth, ceased to flow June 26 and resumed flow July 14.

SPRUCE TREE SPRING became very active again in early July.

Exhibits and Equipment. The self-guiding FOUNTAIN PAINT POT TRAIL has proven extremely popular. The month of July alone consumed all of the first edition of the trail booklet which was anticipated to be sufficient for the year.

The Old Faithful Geyser prediction panel in the Visitor Center has proven to be quite useful in answering the visitors' most frequent questions.

An overlook was constructed at LOWER GEYSER BASIN to afford visitors an opportunity to observe the algae colors and geyser activity. It makes possible an excellent panoramic view.

Board walks were moved away from FOUNTAIN GEYSER as a safety measure.

The new Steamboat Exhibit panel was placed on the south wall of the foyer at Norris Museum.

Sanitation. Park Sanitarian Willett performed 26 food service establishment inspections and five public shower inspections during the month. Investigation was made of two suspected food poisoning outbreak reports and one diarrhea outbreak in employees of the Yellowstone Park Company at Mammoth.

Health. The Park Sanitarian collected 78 water samples for analysis in the Park laboratory.

In cooperation with the National Air Sampling Network the Sanitarian sampled the air twice during the month.

Mr. O. D. Moore, Regional Milk and Food Consultant, Region VIII, Denver, U.S. Public Health Service, made several inspections in the Park accompanied by the Park Sanitarian.

Law Enforcement. A total of 184 law enforcement incidents occurred during the month of July. The following incidents were reported on the Monthly Uniform FBI Crime Report:

Larceny Under $50.00 - 28
Larceny Over $50.00 - 31

Ranger Activities. Ranger patrol cars were used as ambulances for transportation of patients to Lake Hospital on ten occasions.

Ranger personnel assisted in locating 36 lost persons during July.

One Ranger at West Entrance assisted with the injured of an airplane crash on the morning of July 12. A private plane from Salt Lake City crashed during a landing at the West Yellowstone Airport. One occupant was killed and the other three were hospitalized.

Horse patrols have been conducted again in the campgrounds. This activity appears to be appreciated by the campers and is a delight to the children.

Protection. The Burrough cash register system for collecting entrance fees went into operation as follows:

Northeast Entrance	- July 1
North Entrance	- July 6
East Entrance	- July 7
South Entrance	- July 7
West Entrance	- July 8

The system was in complete operation by July 13.

Concessioners. Hamilton Stores, Inc. presented a new policy for use of their script this year. The present policy allows all permanent Government employees assigned to Yellowstone, and seasonal employees with five or more years of seasonal status, to purchase script books.

Dr. H. W. Fromm, a native of Corsica, South Dakota, has joined the Park Clinic and Yellowstone Park Medical Service staff. Dr. Fromm received his medical degree from Northwestern University and served on the surgical staff of the University of Wisconsin Hospital and Medical School for two years. Dr. and Mrs. Fromm have two children, Deborah, 5½ years, and Stuart, eight weeks old.

Complaints. Complaints against the Park Concessioners have generally been less numerous this season and are mostly on untidy housekeeping.

Roads and Trails. Trail crews have begun work on the construction of trails in the Grant Village area. Approximately 0.5 miles of bituminous walk has been completed and an additional 0.5 miles has been cleared of timber.

Ranger Activities. Ranger patrol cars were used as conditions for transportation of patients to Lake Hospital on two occasions.

Ranger personnel assisted in locating 20 lost persons during July.

The Ranger at West Entrance assisted with the injured of an airplane crash on the morning of July 12. A private piece from Fair Lane City crashed during a landing at the West Yellowstone Airport. One occupant was killed and the other three were hospitalized.

Horse patrols have been conducted again in the campgrounds. These activity appears to be appreciated by the campers and is a delight to the children.

Protection. The Burrough tank register system for collecting entrance fees went into operation as follows:

Northeast Entrance	- July 1
North Entrance	- July 3
West Entrance	- July 7
South Entrance	- July 7
West Entrance	- July 8

The system was in complete operation by July 12.

Concessionaire. Hamilton Stores, Inc. presented a new policy for use of their script this year. The present policy allows all permanent Government employees assigned to Yellowstone, and seasonal employees with five or more years of seasonal stores, to purchase Hamilton Stores.

Dr. E. W. Frome, a native of Cotsica, South Dakota, has joined the Park Clinic and Yellowstone Park Medical Service staff. Dr. Frome received his medical degree from Northwestern University and served on the surgical staff of the University of Minnesota Hospital and Medical School for one year. Mr. and Mrs. Frome have two children, Deborah, 14 years, and Robert, eight weeks old.

Complaints. Complaints against the Park Concessionaire have generally been less numerous this season and are mostly as quickly homeowning.

Roads and Trails. Small crews have begun work in the construction of trails in the Grass Village area. Approximately 0.5 miles of [illegible] walk has been completed and an additional 0.5 miles has been [illegible] [illegible].

All trails in the Park have been cleared and are open to fire travel except for some short sections in the South District.

Campgrounds. All campground facilities for the Canyon Campground extension were completed, except comfort stations now under construction. Pit toilets are being used in the interim.

The new addition of the Indian Creek Campground is now completed and in use.

Forest Fire Protection. All fire lookouts are manned. The helicopter arrived July 2 for the season. Helicopter service is supplied by Mead Helicopters of Porterville, California. The forest fire detection plane is contracted from Malm Flying Service, Salt Lake City, Utah. The plane arrived at West Yellowstone loft on July 20.

Three Class A fires occurred during the month: Fern Lake, Tower Fall Dump and Old Tower Road.

U.S. Geological Survey. The Rangers cooperated with the U.S. Geological Survey by making weekly readings of gauges registering the depth and flow of the Madison and Lamar Rivers.

Soil and Moisture. Rangers read the soil moisture gauge on the Gallatin and reported to the Soil Conservation Service.

Hunting. The Montana Fish and Game Department District Supervisor, Fletcher Newby, called a meeting on July 18, relative to the moose hunting regulations in the Cooke City area east of the Park. It was determined that last year's regulations involving the "no hunting" area either side of the main highway will be continued indefinitely. These regulations may have considerable effect on moose populations in the Park's Lamar area during the winter.

Future studies may reveal the need to harvest more moose in this area, and considerations for a change in regulations will be made at that time.

Wildlife.

Bear Statistics:	Date	District	No. of Bears 1964	No. of Bears 1963	No. of Bears 1962
	7/7	North	10	14	12
		South	13	17	17
		West	10	24	39
		Total	33	55	68

Total	33	55	68

Bear Statistics: (Cont.)	Date	District	No. of Bears 1964	No. of Bears 1963	No. of Bears 1962
	7/14	North	10	14	-
		South	8	7	-
		West	9	11	-
		Total	27	32	-
	7/21	North	8	21	14
		South	17	22	24
		West	4	22	29
		Total	29	65	67
	7/28	North	12	17	-
		South	11	21	-
		West	16	19	-
		Total	39	57	-

Bear Incidents:	Through July 1964	Through July 1963	Through July 1962
Injuries	13	19	18
Damages	70	104	43
Killed for Control	2	4	32
Killed by Accident	3	10	4
Shipped to Zoos	1	2	-

Bear - Grizzly: A sow grizzly bear and two cubs were trapped at the Corral Drive-In Restaurant in Gardiner, Montana, on July 1. The family was taken by Dr. Craighead to Trout Creek, tagged, and released. The sow returned and was trapped again July 13 and taken to Sylvan Pass.

Bison: Park officials have received word that Yellowstone will manage its bison herd on the basis of recommendations contained in the Leopold Report.

Lynx: A lynx was observed on July 17 about 1½ miles west of Turbid Lake.

Mountain Lion: Two mountain lions were observed by visitors: July 11 in Hayden Valley, and July 28 west of Madison Junction.

Otter: Five were seen in Yellowstone Lake at West Thumb on July 22. A large otter was observed in Gooseneck Lake.

Porcupine. A porcupine was seen at the North Entrance July 19. Two were killed by cars on the Madison-West road during the month.

Base Statistics: (Cont.)	Date	Station	No. of Hours Ice	No. of Hours Ice	No. of Hours Ice
	7/14	North	13	14	-
		South	4	7	
		West	2	12	-
		Total	17	32	-
	7/21	North	8	14	14
		South	17	28	28
		West	4	22	22
		Total	29	64	64
	7/28	North	12	17	-
		South	14	21	-
		West	14	12	-
		Total	29	47	-

Base Incidents:	Through July 1964	Through July 1965	Through July 1966
Injuries	13	15	11
Damages	75	104	47
Killed for Control	2	4	2
Killed by Accident	3	10	4
Shipped to Zoo	1	3	-

Base - Quality: A low priority test was [illegible] Corral Drive-In Restaurant in Cardiff, Ontario, on July 1. The [illegible] was taken by Dr. Christensen to Trent Creek, Tagged, and released. The [illegible] and was trapped again July 11 [illegible] to [illegible].

Signs: Park officials have continued work from Valleyview will [illegible] the [illegible] on the basis of recommendations contained in the [illegible] Report.

Lynx: A lynx was observed on July 17 [illegible] of [illegible].

Mountain Lion: Two mountain lions were observed by visitors: [illegible] in [illegible] Valley, and July 18 west of [illegible].

Otter: Five [illegible] in Valleyview [illegible] by [illegible] of July 17. A large otter was observed in [illegible].

Porcupine. A porcupine was seen at the North Entrance July 11. Two were killed by cars on the [illegible] road during the [illegible].

Snakes. Several bull snakes were illegally killed by visitors during early July on the Mammoth Terraces.

Trumpeter Swan. A pair of Trumpeter Swan nested this spring on a swamp south of Bunsen Peak resulting in four cygnets. The family has been observed in making several trips between this swamp and Swan Lake, and on one occasion the cygnets were carried the greater portion of the distance by Park Naturalist Wayne F. Replogle and North District Naturalist B. Riley McClelland.

Public Affairs

Publicity. On each Thursday the Yellowstone Weekly News was issued to keep employees, concessioners, and others currently informed of Park happenings.

Four press releases were issued: construction of concessioner sales building at Bridge Bay; new residences at Mammoth; millionth visitor; and new travel records.

Religious and Chapel Use. Services for all faiths were conducted during the month, as scheduled, throughout the Park.

There was a wedding in the Chapel on July 4.

Public Relations: The Montana Association for the Blind, 45 persons, were accompanied on a tour of the Park by Park Naturalist M. Mary Meagher.

Contracts Awarded:

Hathaway Builders Chester, Idaho	$88,763	Office and quarters Laundry and Shower Building at Fishing Bridge
Kenyon Noble Lumber Co. Bozeman, Montana	$1,706	Lumber
Diamond Lumber Co. Lovell, Wyoming	$1,983	Lumber
Cave Construction, Inc. Great Falls, Montana	$246,265.04	Roads, Parking, Drives and Walks, Various Areas

Bunker. Several bull snakes were illegally killed by [illegible] early July on the Sammamish Terrace.

Trumpeter Swan. A pair of Trumpeter Swan nested this spring on a lump south of Moses Fork Trumpeter in Fort Lyons. The family was observed in making several trips between this swamp and Deer Lake, and on one occasion the cygnets were carried the greater portion of the distance by Park Naturalist Baron F. Bonlogie and North District Naturalist R. Riley McClelland.

Public Affairs

Publicity. On each Thursday the Yellowstone Nebbie Bear was issued to Keep employees, concessioners, and others currently indexed by Park happenings.

Four press releases were issued: construction of concessioner [illegible] building at Bridge Bay; [illegible] at Mammoth; [illegible] and new travel records.

Religious and Chapel Day. Services for all faiths were [illegible] during the month, as scheduled, throughout the Park.

There was a wedding in the Chapel on July 4.

Public Relations: The Western Association for the Blind, 40 persons, were [illegible] on a tour of the Park by Park Naturalist R. Riley McClelland.

Contracts awarded:

Hackney Builders Chester, [illegible]	[illegible]	Office and [illegible] Laundry and [illegible] at Fishing Bridge
Bergen Noble Lumber Co. Bergen, Montana	[illegible]	Lumber
Diamond Lumber Co. Lovell, Wyoming	[illegible]	Lumber
Cave Construction, Inc. Great Falls, Montana	[illegible]	[illegible] Building, [illegible] Walks, [illegible]

Western Service Contractors Powell, Wyoming	$67,030.80	Additions to Utility Systems, Various Areas

BIG HOLE NATIONAL BATTLEFIELD.

Travel. Travel was heavy all month. A new record day was established on the 19th when Governor Tim Babcock dedicated State Highway 43. There were 1,240 visitors on the 19th, almost twice the total visitation for May. Total visitors for July were 6,743, as compared to 4,250 visitors for July 1963.

Complaints. There have been several verbal complaints about the Battlefield's small parking area.

The Master Plan for Big Hole National Battlefield is progressing. Chapters One and Two have been drafted, and Chapter Three is being written.

Western Service Contractors, Inc.	$12,000.00	Janitorial in county jail, general
Stevens, Irvine, Jones		

<u>Are you getting enough protection?</u>

<u>Trends</u>. Crime has risen 41 percent. I can report to you that arrests on the 11th are greater than between December and March eighty-six. There were 1,200 citizens on the 11th, about twice the total citizens for day. Total citizens for this were 2,741, as compared to 6,320 citizens for July 1985.

<u>Complaints</u>. There have been several verbal complaints about the jail. Sheriff's email policies stink.

The master plan for the jail with National Architects is progressing. Some work has and has been started, and Chapman Tower is being written.

YELLOWSTONE NATIONAL PARK

DESIGN AND CONSTRUCTION NARRATIVE

July 1964

Plans, Maps and Surveys: The following drawings were reviewed or approved as indicated:

Working Drawing NP-YEL-2600, Trails and Walks, Grant Village, approved by Regional Director.

Working Drawing NP-YEL-2601, Roads - Picnic Areas, Park General - approved by Regional Director.

Working Drawing NP-YEL-2602, Driveways, Employee Residences, Mammoth - approved by Regional Director.

Final PS&E, East Entrance Road, approved by Acting Chief Landscape Architect and Acting Assistant Director.

Preliminary Drawing NP-YEL-3803-A, Uncle Tom's Trail - approved by Regional Director subject to comments.

Working Drawing NP-YEL-6112, Morris By-pass Parking Areas - approved by Acting Regional Director subject to comment.

Preliminary Drawing NP-YEL-6039, Parking Areas, Artist Point Road, Route 160, approved by Regional Director subject to comment.

Concessioner Working Drawing NP-YEL-8898, LP Gas Installation, Water Heater Addition, Fishing Bridge Cafeteria, recommended by Superintendent subject to comment.

Preliminary Drawing NP-YEL-6102, Employee Apartments, 12 units, Grant Village, being reviewed.

Preliminary Concessioner Drawing NP-YEL-8911, Laundromat and Shower Building, Old Faithful, being reviewed.

Yellowstone Park Company preliminary study, Repair and Service Building, Grant Village, being reviewed.

The centerline location of the Artist Point Road was reviewed on site July 16, followed by a plans-in-hand inspection July 28 which is to be considered the preliminary PS&E.

Bids Opened:

July 15: Roads, Parking, Drives and Walks at various locations in the Park. Three bids received. Cave Construction, low bidder.

July 21: Additions to Utility Systems, various locations in the Park. Western Service Contractors, low bidder, of four.

June 25: Montana Portion, Beartooth Highway, State of Montana and BPR. All bids rejected.

July 29: East Entrance Road Reconstruction. Two bids received - and rejected. Expect to readvertise.

It is hoped that the Grant Village Visitor Center can be readvertised in September.

The bid opening on Boat Docks and Related Facilities, Grant Village, originally scheduled for July 30 was changed to August 11, 1964 by Addendum No. 1.

Contracts Awarded:

No. 14-10-0243-589 - Floyd Hathaway - Office and Quarters, Laundry and Showers Building, Fishing Bridge Trailer Village, $88,763.00

No. 14-10-0243-592 - Cave Construction, Inc., Great Falls, Montana - Roads, Parking, Walks and Drives at various locations in the Park, $245,265.94.

No. 14-10-0243-593 - Western Service Contractors, Powell, Wyoming - Additions to Utility Systems, various locations in the Park, $67,030.80

Notice to Proceed:

Effective July 17, 1964: Martel and Lee, Contract No. 14-10-0243-587, Concessioner Sales Building, Bridge Bay.

Effective July 17, 1964: Floyd Hathaway, Contract No. 14-10-0243-588, Five employee residences, Mammoth; Two comfort stations, Grant Village.

Effective July 27, 1964: Floyd Hathaway, Contract No. 14-10-0243-589, Office and Quarters, Laundry and Shower Building, Fishing Bridge Trailer Village.

[illegible]

July 15. Study, [illegible], Bonus and [illegible] to [illegible] [illegible] in the Park. Three [illegible] reported. Four [illegible], [illegible] [illegible].

July 20. Addition to [illegible] [illegible] [illegible] [illegible]. Bonuses [illegible] [illegible] [illegible] [illegible].

June 30. Bonuses [illegible], [illegible] Payment, [illegible] [illegible] [illegible] [illegible]. All [illegible] [illegible].

July 30. [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] and [illegible]. [illegible] [illegible].

It is hoped that the Cross Village Parking [illegible] [illegible] [illegible] [illegible] [illegible].

The [illegible] [illegible] [illegible] [illegible]

Resume Work Orders:

Effective June 30, 1964: Floyd Hathaway, Schedule I (residences, Mammoth) of contract No. 14-10-0243-540.

Effective July 13, 1964: Hartwell, Utility Extensions, Grant Village, contract No. 14-10-0243-534.

Effective July 13, 1964: Floyd Hathaway, Schedule II (comfort stations, Fishing Bridge Trailer Village) contract No. 14-10-0243-540.

Final Inspections:

June 30, 1964: Seeding and Planting, Mammoth - Contract No. 14-10-0243-578, Vaughn Landscaping and Tree Service, Twin Falls, Idaho. Accepted.

July 30, 1964: Water System Improvements (Water Reservoir No. 2), Lake Area - Contract No. 14-10-0243-478, Borgan Construction Company, Billings, Montana

July 29, 1964: Two bridges, Beartooth Highway (outside of Park)

Revised priority lists for the 1966 fiscal year construction program have been submitted to the Midwest Region Office.

Frank Hirst and Don Rickey were here July 22-24 to work on the Master Plan for Big Hole National Battlefield. Chapters 1 and 2 have been submitted.

Lada Kucera, Supervisory Structural Engineer, WEDC, was here to inspect buildings at Lake which had suffered winter damage.

John S. McLaughlin

In triplicate

cc
Regional Director, Midwest
Library
Management Assistant
File
H.Tracy:JM:PL

Library
Management Assistant
File
H.Tracy:JM:PL

The Millionth Visitor to Yellowstone National Park was officially greeted at the Park's South Entrance Monday, July 27.

Pictured left to right are: Assistant Superintendent J.A. Martinek, Management Assistant James W. Godbolt, Nick McKinney, Mrs. Duane McKinney, Mary Bucklin, Howard Bucklin, Mrs. Harris Bucklin, and Jane Bucklin from Wilton, Connecticut.

NPS Photo

Miss Anita M. Jones, Clerk-Stenographer, was honored at a Coffee July 23. Miss Jones transferred to Shadow Mountain National Recreation Area, Grand Lake, Colorado.
Presentation by Reid Malin, Assistant Supply Officer. NPS Photo

James R. Hepburn, Mechanic, Automotive, was honored at Coffee, July 24. Mr. Hepburn and family transferred to Grand Teton National Park. Thomas Gray, Mechanic, made the presentation. NPS Photo

Area Yellowstone National Park

CHECK BELOW THE PROJECT USED:

☒ BUILDINGS AND UTILITIES ☐ NPS ROADS AND TRAILS ☐ BPR ROADS AND TRAILS

REPORT FOR (*Month and year*) July 1964

F. Y. PROGRAM 1	WORK ORDER NUMBER, LOCATION WITHIN AREA, AND PROJECT TITLE 2	PCP NO. 3	DRAWING NO 4	CONSTRUCTION: AMOUNT ALLOTTED AND DATES 5	CONTRACT (C) OR DL 6	ESTIMATED DATE STARTING / COMPLETION 7	% COMPLETE 8	REMARKS AND CONSTRUCTION AGENCY: (D & C), (R), OR (A) 9
1960	B-58-YEL (331.46) Hospital, Dormitory & Physicians' Duplex, Lake	B-356 B-357 B-370	3819A 3742A 3743A	442385.26	C	8/1961 8/1964	99	D&C Contract No. 14-10-0243-429 Julien Construction Co., Cody, Wyo. $363,847. 100%
					DL			A Equipment $12,787.26. Fuel oil & gas $1,346.63. Furniture & equipment $9,750. Hospital furniture & equipment $20,866.14. Office furniture $676.50. P.O. Big Horn Electric $300. Pathological incinerator $4,350
								D&C Landscaping $2,500.00. 100%
1963	B-93-YEL - Elementary School and Community Bldg. (Govt. share) Mammoth	B-362	2886C	19800.00	C	4/1963 7/1964	100	D&C Contract 14-10-0243-489, Floyd Hathaway, Chester, Ida. $140,791 Govt. share $19,800.
1963	B-94-YEL - Clinic Bldg. incl. Equipment & Heated Ambulance Storage, Mammoth	B-373	3837A	88325.95	C	4/1963 9/1964	98	D&C Contract 14-10-0243-488, Floyd Hathaway, Chester, Ida. $77,232. 100%
					DL			D&C Dental equip. $4,036.65. Clinic equipment & furniture $6,175
								A Fuel $270
								Changes in heating system to be made this fall.

Area Yellowstone National Park

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REPORT FOR (Month and year) July 1964

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1964	B-107-YEL - Rehab. Structures Transferred from Bureau of Sport Fisheries & Wildlife at Lake A. Fish Traps B. Rehab. Bunkhouse C. Remodel Office, Bldg. 725 D. Acquisition & Placing Two Transahomes E. Rehab. Garage F. Residences (Rehab.)	B-395-1	2685	45656.86	DL	8/1963 8/1964	66	A $15,901.86 100% 7,296.57 95% 5,200.00 100% 4,258.43 50% 3,600.00 -0- 9,400.00 -0-
1964	B-109-YEL - Employee Residences (5) 3-bedroom, Mammoth	B-393-1	6010	88144.79	C	10/1963 8/1964	99	D&C Contract 14-10-0243-540, Floyd Hathaway, Chester, Ida. $81248.85 Resume work order June 30, 1964
					DL			A Electric ranges 804.25; fire extinguishers $88; refrigerators $754.00; curtain rods, shades & clotheslines $407.69. 100%
1964	B-110-YEL - Comfort Stations (8) with utility connections, Canyon	B-350-1	3949	71582.05	C	10/1963 10/1964	35	D&C Contract 14-10-0243-540, Floyd Hathaway, Chester, Idaho. $69,907.05.
1964	B-111-YEL - Comfort Stations (4) Fishing Bridge Trailer Village	B-399	6005	35267.60	C	10/1963 11/1964	2	D&C Contract 14-10-0243-540, Floyd Hathaway, Chester, Idaho $35,267.60. Resume work order 7/13
1964	B-115-YEL - Employee Housing, 8-unit apartment, Grant Village	B-199-3	6011A	63221.00	C	6/1964 11/1964	27	D&C Contract 14-10-0243-548, Elliott Construction, Riverton, Wyoming $63,221.00

Area Yellowstone National Park

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1964	B-116-YEL - Wash House, Employee Trailer Court, Grant Village	B-318-2	6006	16987.00	C	6/1964 11/1964	30	D&C Contract 14-10-0243-548, Elliott Construction, Riverton, Wyoming $16,987.00
1964	B-120-YEL - Concessioner Facilities (incl. Concessioner Sales Bldg., Boat Repair & Rental Bldg., 1½T Hoist, Clock House & Floating Fuel Dock), Bridge Bay	B-450	6104 6049 6105	80375.00	C	5/1964 6/1965	3	D&C Bids opened 6/21, Floating Fuel Dock. Contract No. 14-10-0243-593, Western Service Contractors, Powell, Wyo.$67,030.80 (this portion $15,190.00) Contract No. 14-10-0243-587, Martel & Lee, Bozeman, Mont. $79,985. notice to proceed 7/17/64
					DL			A P.O. Hathaway, Clock House $990. 100%
1964	B-122-YEL - Employee Residences (5) 3-bedroom, Mammoth	B-430	6043	89,200.00	C	7/1964 1/1965	1	D&C Contract No. 14-10-0243-588, Floyd Hathaway, Chester, Idaho $89,200. Notice to Proceed 7/17/64
1965	B-123-YEL - Comfort Stations with Utility Connections, Grant Village Campground	B-419	6038	20,235.00	C	7/1964 1/1965	0	D&C Contract No. 14-10-0243-588, Floyd Hathaway, Chester, Idaho $20,235. Notice to Proceed 7/17
1964	B-124-YEL - Laundry & Showers - Office & Qtrs. Bldg., Fishing Bridge Trailer Village	B-400 B-398	6029		C	7/1964 1/1965	1	D&C Contract No. 14-10-0243-589, Floyd Hathaway, Chester, Idaho $88,763.00
1964	Visitor Center incl. Audio-visual & Exhibits, P. O. & Dispensary, Grant Village	B-376	6012		C			D&C All bids rejected.

Area Yellowstone National Park

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1963	Terminal Bldg., Utilities, Landscaping, etc. W. Yellowstone Airport, W. Yellowstone, Montana							Montana Aeronautics Commission. Contracts awarded Wallace Diteman, Inc., Bozeman, Montana; Fullerton's Plumbing & Heating, Hamilton; Van Dyken Drilling, Bozeman; & Bozeman Electric
1965	Ranger Patrol Station, Marina Area, Grant Village	B-424-1			C			D&C
1965	Utility and Storage Building, Grant Village	B-317			C			D&C
1965	Employee Apartments, 12 units Grant Village	B-405-1	6102		C			D&C
1965	Boat Patrol Station, Grant Village	B-418			C			D&C
1965	Entrance Station, East Entrance	B-390			C			D&C
1962	B-48-YEL (332.50), Water & Sewer Dock Area, Bridge Bay	U-213	3810	186992.79	C	6/1961 8/1964	99	D&C Contract 14-10-0243-420, Budd Plumbing & Heating, Bozeman, Mont $52,977, sewage treatment, 100% Contract 14-10-0243-421, Studer Construction, Billings, Mont. water & sewer, $126,510. 100% Bridge Creek Well No. 1 - 14-10-0243-532, Paul Vollmer & Son, Aberdeen, Idaho, $2,098.95. 100%
					DL			D&C P.O. Budd - insulate standpipes etc. $250.70 P. O. Lee - fallout sewer $2,995

Area Yellowstone National Park

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1962	B-48-YEL (332.50), Water & Sewer, Dock Area, Bridge Bay (Cont.)	U-213	3810		DL			A Hose houses & equipment $1996.50 100%
		U-213-2	6042					Pump, pipe line & controls $6900 85%
1963	B-72-YEL (332.57) Water Reservoir No. 2, Lake	U-184-1	3844	207192.63	C	7/1962 8/1964	99	D&C Contract No. 14-10-0243-478, Borgan Construction Co., Billings Montana, $189,209.86. Final inspection 7/30/64
					DL			A Payments to Yellowstone Park Co. for line in place $4,000.00
1964	B-104-YEL, Construct Utility Ext. & Distribution, Govt. Area, Employees Tr. Ct. and Marina, Grant Village	U-228-2	6003A	184557.85	C	8/1963 9/1964	80	D&C Hartwell Excavating, Idaho Falls Idaho, Contract 14-10-0243-534, $183,663.85 Resume Work 7/13/64
1964	B-105-YEL, Water & Sewer Ext. & Connections, Fishing Bridge Trailer Village	U-234 U-233	3946 6109	195857.02	C	8/1963 9/1964	86	D&C Contract 14-10-0243-536, Cave Construction, Inc., Great Falls, Montana, $195,857.02. 90%
								Lift Station, water & sewer connections - bid opening 7/21/64. Contract 14-10-0243-593, Western Service Contractors, $67,030.80 (this portion $9,072)
1964	B-106-YEL, Electrical Distribution & Service, Fishing Bridge Trailer Village	U-233	3946	37221.21	C	8/1963 9/1964	90	D&C Contract 14-10-0243-536, Cave Construction, Inc., Great Falls Montana, $37,221.21.

Area Yellowstone National Park

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1964	B-113-YEL, Rehabilitation of Buildings & Utilities (Por.) A. Rehab. of Bunkhouse to Research Center Lab, Lamar Ranger Sta. B. Utilities C. Acquisition and placing four transahomes D. Grounds Improvement and Obliteration of Old Buildings	U-232	95B	74666.00	DL	10/1963 8/1964	66	A $26,166.00 - 92% 35,000.00 - 50% 8,600.00 - 40% 4,900.00 - 90%
1964	B-119-YEL, Utilities to Serve Concessioner Laundry & Shower Bldg. Old Faithful	U-260			DL	9/1964 10/1964		A Added by Program Adjustment
1965	Trailer Sanitary Dump Stations, Park General B-125-YEL	U-246	6108		C	7/1964 1/1965		D&C Contract No. 14-10-0243-593, Western Service Contractors, Powell, Wyo., $67,030.80 (this portion $15,025.80) Bids opened 7/21/64
1964	B-126-YEL, Water Valves and Meters Lake	U-247	6040		C	7/1964 1/1965		D&C Contract No. 14-10-0243-593, Western Service Contractors, Powell, Wyoming, $67,030.80 (this portion $27,743) Bids opened 7/21/64
1964	Utilities to Serve Concessioner Laundry and Shower Bldg., Fishing Bridge Trailer Village							
1964	B-101-YEL, Tables, Fireplaces, Refuse Containers & Site Preparation, Canyon Campground	M-106	3385-D	27,200.00	DL	7/1963 8/1964	98	A

Area Yellowstone National Park

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REPORT FOR (Month and year) July 1964

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1964	B-103-YEL, Picnic Area Facilities (Tables, Refuse Containers & Misc.) Park General (Arnica Cr., Dunraven Pass - 2, & Crescent Hill)	M-146	3435	6,600	DL	7/1963 8/1964	75	A
1964	B-108-YEL, Marina Dredging and Bulkheading, Grant Village	M-149	3737A	489502.06	C	8/1963 8/1964	89	D&C Contract 14-10-0243-535, Cave Constr., Inc., Great Falls, Mont. $445,511.56
1964	B-114-YEL - Grounds Improvement & Site Protection for School, Res. Area & Medical Clinic Mammoth	M-115-1	6030	21876.13	C	10/1963 8/1964	81	D&C Contract 14-10-0243-545, Gray Landscaping, Ida. Falls $4367.50 Grading & Topsoiling. 100% Contract 14-10-0243-578, Vaughn Landscaping & Tree Service, Twin Falls, Idaho, $16,330.25. Seeding and Planting. Final inspection 6/30/64. 100%
					DL			A Maintenance by Park crews
1965	B-121-YEL - Picnic Area Facilities Tables, Fireplaces, Refuse Containers, Misc., Park General	M-141	3435	10,500.00	DL	7/1964 6/1965	10	A
1965	Boat Docks & Related Facilities Grant Village	M-145	6111		C			D&C Bids to be opened August 11, 1964
1965	Grounds Improvement & Site Restoration (Por.), Grant Village	M-143	6044-A		C			D&C Bids to be opened August 18, 1964
1965	Obliterate Campground & Site Restoration, West Thumb	M-128	6106		C			D&C Bids to be opened August 18, 1964

Area Yellowstone National Park

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1965	Topsoiling, Seeding and Planting Fishing Bridge Trailer Village	M-147	6041A		C			D&C Bids to be opened August 18, 196
1965	Amphitheater, Grant Village 730 capacity, incl. Audio-visual	M-111-2			C			D&C
1965	Grounds Improvement & Site Protection, Mammoth	M-144						

Area Yellowstone National Park

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1963	West Yellowstone Airport - Runways Taxi Strips, Aprons, Service Roads, West Yellowstone, Montana	R-348			C	5/1963 9/1964		Handled by Mont. Aeronautics Com. Robt. V. Burggraf Co., Inc., Idaho Falls, Idaho, $920,485.12
1964	R-65-YEL, Construct Roads, Picnic Areas, Dunraven Pass, Old Dunraven Road & Cascade Meadows, Park Gen.	R-353	2689	20,000	DL	6/1963 8/1964	90	A
1964	R-66-YEL, Construct Rds. & Parking Grade, Drain, Base, Bitum. Surface Curbs, Barriers & Signs. Fishing Bridge Trailer Village	R-352	6008	168186.60	C	8/1963 8/1964	77	D&C Contract 14-10-0243-536, Cave Construction, Inc., Great Falls Montana, $159,124.60. Resume work order effective 6/17/64
1964	R-67-YEL, Reconstruct Roads and Parking, Lamar Ranger Station	R-355		8,000	DL	10/1963 8/1964	60	A
1964	R-68-YEL, Access Road, Parking Areas & Walks to Serve Concessioner Shower & Laundry Bldg., Old Faithful	R-418			DL	9/1964 10/1964		A Added by Program Adjustment
1964	Access Road, Parking Area & Walks to Serve Concessioner Shower & Laundry Bldg., Fishing Bridge Trailer Village							Added by Program Adjustment
1965	R-69-YEL, Trails and Walks, Grant Village	R-357	2600		DL		20	
1965	R-70-YEL, Roads, Picnic Areas (8 areas), Park General	R-372	2601		DL			

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1965	R-71-YEL, Reconstruct Trail Bridges at Grand and Castle Geysers, Park General	R-316-1	2683 2684		DL			A
1965	R-72-YEL, Roads and Drives, Employee Residences, Mammoth	R-360	2602		DL			
1965	R-73-YEL, Parking Areas, Grand Loop, Park General	R-377	2696		DL			
1965	R-74-YEL, Roads & Parking, Utility Area, Base, Surface, Curbs & Barriers, Grant Village	R-359-1	6100 6110		C			D&C Bids opened 7/15/64. Contract 14-10-0243-592, Cave Construction Inc., Great Falls, Montana $246,266.04 (this por. 136623.59)
1965	R-75-YEL, Campground Roads (compl.) Dust Palliative & Barriers, Pelican Creek	R-375	6103		C			D&C Bids opened 7/15/64. Contract 14-10-0243-592, Cave Construction Inc., Great Falls, Montana $246,266.04 (this por. 32710.04)
1965	R-76-YEL, Roads and Parking (compl.) Marina Area, Bridge Bay	R-384	6048		C			D&C Bids opened 7/15/64. Contract 14-10-0243-592, Cave Construction Inc., Great Falls, Montana $246,266.04 (this por. 24750.91)
1965	R-77-YEL, Rehab. Lodge Cabin Area Old Faithful	R-332	6046		C			D&C Bids opened 7/15/64. Contract 14-10-0243-592, Cave Construction Inc., Great Falls, Montana $246,266.04 (this por. 30,652.20)
1965	R-78-YEL, Resurface Employee Trailer Court & Access Rd., Rte. 230, 2.9 miles, Old Faithful	R-323	6046		C			D&C Bids opened 7/15/64. Contract 14-10-0243-592, Cave Construction Great Falls, Montana. $246,266.04 (this por. 21,529.20)

* GPO : 1962 O - 645945

GPO 941102

Area Yellowstone National Park

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1965	Trails, Paths and Walks, Bridge Bay	R-361			DL			A
1965	Commercial Parking Area, Clearing and Grubbing, Fishing Bridge	R-376						

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1961	R-39-YEL (521.13) Grand Loop, Rte. 1E, Araica Creek - Bridge Bay Grade & Base Surface 9.1 mi.	R-55-3		856697.79	C	7/1961 8/1964	95	D&C Contract 14-10-0100-1242, Long Construction Co., Billings, Mont $779,110.88. 100%
					DL			A $5,000 for striping and signing
1961	R-46-YEL (521.15) Morris to Canyon Grade & Base Surface 8.4 miles Route 12 (Por.) and 2 Bridges	R-62-6		769243.31	C	10/1961 8/1964	96	D&C Contract 14-10-0100-1201, Taggar Constr. Co., Cody, Wyo. $734,674 100%
					DL			A Signing and striping $2,000 90%
1963	R-53-YEL (521.17), Grand Loop, Relocate Road at Beryl Springs	R-343		160620.17	C	10/1962 9/1964	98	D&C COP Constr. Co., Billings, Mont. $163,935. NPS-WASO-YEL-V-62/36. 100%
					DL			A U. S. Geologist $2,911.47 Striping and signing $500 Fencing $1,806.58. 65%
1963	R-56-YEL - Reconstruction, Northeast Entrance Road & Bridge Approaches, Yellowstone River Bridge thru Lamar Canyon (Proj. 8)	R-240-1		226222.00	C	7/1963 8/1964	48	D&C Contract NPS-WASO-YELL-V-63/12, Long Constr., Billings, Mont. $222,222.00
					DL			A Striping and signing, $2,000.00
1963	Reconstruction, Red Lodge - Cooke City Road (Por.), Montana	R-344			C			BPR and State of Montana; funds carried over. Bids opened 6/25/64. All bids rejected.
1965	Reconstruct Red Lodge - Cooke City Approach Road (Por.), Montana	R-410			C			BPR and State of Montana

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1964	Reconstruction, Route 5, East Entrance to Parking Area, 6 mi., Base Bitum. Surface & Shoulders (incl. Relocation of East Entrance Station Road)	R-309-1			C			D&C Bid opening July 29
1965	Norris By-pass and Parking Area and Relocate Norris Jct., 3.5 mi.; and Reconstruct Road from Norris By-pass to Gibbon River Bridge, 2.5 miles, Route 1B and Route 12	R-310-1			C			D&C
1965	Reconstruct Road and Parking Areas, Chittenden Bridge to Artist Point, Route 160, 1.6 miles, Base and Bituminous Surface	R-341-1			C			D&C

☆ GPO : 1962 O - 645945

GPO 941102

Area Big Hole National Battlefield

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[X] BUILDINGS AND UTILITIES [ ] NPS ROADS AND TRAILS [ ] BPR ROADS AND TRAILS

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1965	Utility System (Por.), Water and Sewer (Drill Well, Install Pumps, Distribution Lines and Sewage System)	U-1-4			C			D&C Deferred pending acquisition of land

Area Big Hole National Battlefield

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1965	Access Road for Visitor Center, Utility Area and Residential Area (Por.)., Clear, Grade & Drainage	R-1-4			C			D&C Deferred pending acquisition of land

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Yellowstone National Park, Wyoming 83020

REPLY REFER TO:
N2615

August 7, 1964

Memorandum

To: Superintendent

From: Chief Park Naturalist

Subject: Monthly Narrative Report, Interpretation, July 1964

Interpretive Services

Interpretive activities commencing earlier in the season in the West District continued during July and were marked by large audiences attending. For example, 226 of the popular and interpretively important Old Faithful Cone Talks were given to crowds averaging more than 1800 persons per talk.

Seasonal naturalists are stationed during portions of the day at localities of high visitor concentration such as Geyser Hill, Morning Glory Pool and Grotto Geyser. These are strategic positions not only for interpretation of outstanding Park features but for their protection against vandals as well. Unfortunately, the staff is not strong enough to provide for this service for more than several hours of the day.

All programmed services for public participation continue in full force as established and initiated by the North District Interpreters.

A full schedule of interpretive services was offered in the South District throughout the month.

Auditing of evening programs has been accomplished during the month by the Chief Park Naturalist, Assistant Chief Park Naturalist, Park Naturalist Meagher, and the District Naturalists.

Interpretive Planning

Mr. Robert Spring, wilderness photographer of Edmonds, Washington, who is under contract to the National Park Service to furnish photographs for the Grant Village Visitor Center exhibits, arrived July 15 to spend approximately one month in the Park. Mr. Spring, accompanied by Assistant Chief Park Naturalist Harry, made several back-country trips before the end of the month.

Fresh plant and animal specimens for Grant Village Visitor Center exhibits have all been collected and shipped to the proper laboratories as directed.

In-Service Training

Ten West District interpreters attended a Forest Fire Training Session presented by area protective personnel on July 8.

All Old Faithful interpretive personnel met to discuss the interpretive program and work responsibilities on July 20.

The West District Naturalist attended the District Safety Meeting on July 29.

Personnel

Mrs. Jean Swearingen, seasonal Clerk-Dict. Mach. Trans. GS-3, was promoted to GS-4 effective July 5.

Difficulty was experienced in filling the vacant Ranger-Naturalist position as of July 1. Mr. Ronal Halverson was contacted by phone but after arriving at Old Faithful and surveying the workload, he declined the position and left the Park. On the 13th, the position was finally filled when Park-Ranger-Naturalist Patricia Hackett entered on duty.

Oscar L. Alm reported for duty at Fishing Bridge July 1. This brought the South District Interpretive Staff to full strength for the season.

Yellowstone Library and Museum Association

Twenty-six books were accessioned into the Library during the month.

Mrs. Fern Wolfe, Bookroom Clerk, worked full time during the month on routine matters. The initial printing (25,000) of the FOUNTAIN PAINT POT NATURE TRAIL was exhausted at the end of the month and a new printing is expected during the first week of August.

Special Activities

The following special parties received interpretive services by West District interpreters:

Dr. Moeljada Banoewidjojo, Indonesia, 3-1/2 hours, July 7
The Four Sisters, Mrs. Gladys Stephens, 45 people, 1-3/4 hours, July 9
Montana Association for the Blind, 45 people, 2-1/2 hours, July 11
Mr. Laxmi B. Rana, Conservation of Forests, Nepal, 1 hours, July 15
Mahnowd Bahmanyar and son Reaze, Tax Dept., Iran, 3 hours, July 21
Dr. Kuldip R. Khanna, Univeristy of Colorado, 3 hours, July 23 and 24
Guillerme Vellegas Fabrigo, Asst. Minister of Agriculture,
Republic of Panama, 4 hours, July 28

Millionth Visitor, Mrs. Duane McKinney and son; Mrs. Harris Bucklin, daughters Jane and Mary; and son Howard, 2-1/2 hours, July 28

Mineralogical Society of America from Montana State College, Bozeman, 95 people, 1 hours, July 31

The Chief Park Naturalist, Assistant Chief Park Naturalist, and North District Naturalist spent July 2 with Dr. Erling Dorf and his geology group on Specimen Ridge.

On July 6, Seasonal Naturalist Revell Phillips gave a special talk to a group of 12 conservation students.

Dr. William A. Fischer of Colorado College spent July 13-18 in the Park with a group of 19 teachers sponsored by the National Science Foundation. North District Naturalist McClelland participated in a group tour on July 13.

The Chief Park Naturalist and Dr. J. D. Love of the U. S. Geological Survey spent July 16 and 17 in Hayden Valley and Pelican Creek investigating a geological problem on which they are working.

Mr. Richard Strand, interpreter from JNEM, called on the Chief Park Naturalist July 21 to discuss interpretation methods in Yellowstone.

Seasonal Naturalist Wayne Replogle assisted Mr. & Mrs. Armand Denis of the British Broadcasting Corporation and cameramen N. D. Bartlett and Niels Halbertman, in obtaining a series of Yellowstone scenes and animals. This material will be used in thirteen 30-minute TV shows on BBC TV this winter.

The Montana Association for the Blind (45 persons) were accompanied on a tour of the Park on July 11 by Park Naturalist Meagher.

Dr. Edson Fichter of Idaho State University spent several days in the Park during late July observing pronghorn in connection with a study now in progress. He was given pertinent information and assistance by Park Naturalist Meagher.

A meeting of the District Naturalists was held in Mammoth July 30.

Research and Observation

During July, North District seasonal naturalists continued work on research projects assigned earlier in the season. Also, familiarization patrols were continued as time permitted.

Park Naturalist Meagher spent 12 days during the month on bison research, mostly in the field. Field time has been concentrated in the Lamar area.

Because of technical difficulties, the seismograph at Canyon Visitor Center was deactivated during the month.

STEAMBOAT GEYSER - Two more records were broken during the month. The previous record number of eruptions during one month was 4 in June. July, however, was marked by 5 eruptions. On July 2, Steamboat erupted after only a 5-day interval, the shortest on record. The previous record was 6 days. Use of the upper vents as indicators was abandoned during the month as they proved to be unreliable.

The average interval for OLD FAITHFUL during the month was 67.3 minutes. The longest interval was 92 minutes and the shortest was 38 minutes. In June the average interval was 66.73 minutes. In July 1963 the average was 65.2 minutes.

The average interval for GRAND GEYSER was 16 hours during June 1964 and 14 hours for July. Each year it has been shorter than the preceeding year, as follows:

July, 1964 - 14 hours
July, 1963 - 33 hours
July, 1962 - 40 hours
July 1961 -131 hours

Ten eruptions for BEEHIVE were recorded in July, compared with three in June. There were undoubtedly a few eruptions at night which were not recorded.

Forty-nine eruptions of CASTLE GEYSER were observed, with an average interval of 9 hours, a maximum of 10 hours and 30 minutes and a minimum of 8 hours and 3 minutes.

Fifty-two eruptions of RIVERSIDE GEYSER were recorded with an average interval of 6 hours and 16 minutes. The maximum was 6 hours and 40 minutes and the minimum was 5 hours and 50 minutes.

Thirty-nine eruptions of GREAT FOUNTAIN were recorded with an average interval of 7 hours and 32 minutes. The longest interval recorded was 8 hours and 5 minutes and the shortest, 7 hours and 10 minutes.

Twenty-one eruptions were recorded for GROTTO GEYSER. The average interval may be about 6 hours.

The average interval for PLUME appears to be about 26 minutes.

Nine eruptions were recorded for OBLONG GEYSER. Its average may be about 7 hours.

At Mammoth, BABY SPRING ceased flow June 26 and resumed flow July 14.

SPRUCE TREE SPRING became very active again in early July.

WILDLIFE OBSERVATIONS

The Chief Park Naturalist observed a lynx on July 17 about 1-1/2 miles west of Turbid Lake.

One large otter was observed in Gooseneck Lake.

A pair of Trumpeter Swan nested this spring on a swamp south of Bunsen Peak, resulting in four cygnets. The family has been observed in making several trips between this swamp and Swan Lake, and on one occasion the cygnets were carried the greater portion of the distance by Replogle and McClelland.

A female Grizzly made frequent visits to the Tower trash dump during the month.

Two mountain lions were observed by visitors; July 11 in Hayden Valley, and July 28 west of Madison Junction.

Several bull snakes were illegally killed by visitors during early June on the Mammoth Terraces.

A "close-up" Grizzly observation was reported by Messrs. Spring, Harry and McClelland on their return to Pebble Creek Campground following a back-country hike to obtain wilderness photographs. Upon rounding a turn in the trail, they saw a Grizzly sitting in the trail. After eyeing them a few minutes, Grizzly calmly started up the trail toward the men, who by this time were dropping their gear in preparation for climbing the nearest tree/trees. The Grizzly passed up McClelland's pack with barely a sniff, and made his way straight to the second pack, which belonged to Bryan Harry. This pack was completely destroyed and all the food eaten. (No trace of Bryan's sneaks was ever found!) During this time, from his tree-top Bryan was yelling and throwing branches and cones at the bear, who paid absolutely no attention to him. After eating all the food, Grizzly went to the Creek for a drink, giving the men an opportunity to descend to the ground, gather up what was left of their belongings, and reach the safety of their car about a mile away.

The following collecting permits were issued during July:

Lawrence E. Brown, Kansas State University	Rocks
Charles E. Dugnolle, Wyoming Fish & Game Commission	Rodents
William A. Fischer, Colorado College	Invertebrates
B. Grant Pugh, Granite High School, Salt Lake City	Rocks
Duncan T. Patten, Virginia Polytechnic Institute	Plants & rocks
Richard W. Spellenberg, University of Washington	Plants
Richard P. Sheridan, University of Oregon	Algae
Guenter Vilbig, Wilson Jr. High School, Norfolk, Mass.	Rocks
John E. Ericson, Montana State College	Grasses & conifers
Bruce D. Noe, University of California	Insects

Exhibits and Equipment

The self-guiding Fountain Paint Pot Trail has proven extremely successful. The month of July alone consumed all of the first edition of the trail booklet which was supposed to be sufficient for the year.

Roadside exhibits in the West District were cleaned inside and out during the month.

The Old Faithful Geyser prediction panel in the Visitor Center has proven to be quite useful in answering the visitors' most frequent question. However, going at the panel with a grease pencil some 300 times a month has unfortunately caused accidental smudges to appear around the writing surface. So far these smudges have responded to cleaning and the panel kept presentable.

A radio was installed in one of the West District vehicles making more efficient use of the roving interpreter's time.

An overlook was constructed at Lower Geyser Basin to afford visitors an opportunity to observe the algae colors and geyser activity. It makes possible an excellent panoramic view.

Board walks were moved away from Fountain Geyser as a safety measure.

The new Steamboat panel exhibit was placed on the south wall of the foyer at Norris Museum.

A new fire pit was built at the Mammoth Amphitheater by Naturalists Phillips and Replogle.

Control signs were placed at various places on the Mammoth Terraces with good results.

The wayside interpretive panel at Spurgin's Beaverslide and the Monad were removed during the month.

The panel entitled "Jackstraw Timber" located at LeHardy Rapids was corrected to read "Jackstraw Trees" in line with Mr. Alberts' suggestion of last year.

The following new exhibit items were installed in the visitor centers in the South District during the month:

1. A new aerial perspective map of Lake-Fishing Bridge-Bridge Bay area at the Fishing Bridge Visitor Center.

2. Three paintings were framed and hung in the Fishing Bridge Visitor Center.

3. The large aerial perspective map at Canyon Visitor Center was retouched and errors corrected.

4. The Canyon area panel map in the lobby of the Canyon Visitor Center was corrected.

5. A new bulletin board was installed in the lobby of the Canyon Visitor Center; this replaces the MISSION 66 exhibit panel which was removed.

Audiovisual

The new amphitheater installations in the South District are, in general operating satisfactorily. A number of small technical matters need attention, but on the whole the new systems are functioning beautifully.

A series of five pre-program music tapes were prepared during the month for each of the South District's three refurbished amphitheaters.

Photographic and Darkroom

The Park Photographer made five field trips during the month on special photographic assignments as follows: the millionth visitor, and construction and wildlife photos. The remainder of the month, except for one day annual leave, was spent in the lab.

History

The Park Historian discussed plans for an Indian booklet with Wayne Replogle. A draft of Bob O'Brien's doctoral dissertation was reviewed. Page-proof was read on Mr. Marler's booklet STUDIES OF GEYSERS AND HOT SPRINGS ALONG THE FIREHOLE. Preparation of the July-August INTERPRETER was begun on July 27.

The Park Historian accompanied Dr. Richard Bartlett to historic sites in the Lamar Valley and Canyon-Lake area on July 8 and again on the 21st.

Portions of six days were spent indexing and filing historical data secured on a visit to the Montana Historical Library and the Montana State University Library Last month. Assistance was given an architectural student with historical aspects of a study of Park structures, and to a professional magazine writer from Texas.

The Park Historian made a set of photographs of Obsidian Cliff for the Corning Glass Museum.

Prepared by Elnora G. McKee
Elnora G. McKee
Secretary

Submitted by John M. Good
John M. Good
Chief Park Naturalist